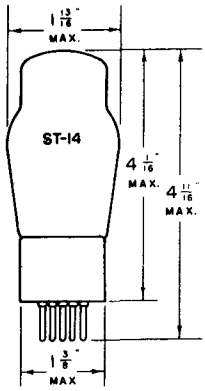
TUNG-SOL



TWIN TRIODE

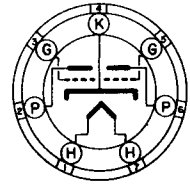
POWER AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.8 AMPERE
AC OR DC

GLASS BULB

MEDIUM 7 PIN BASE



7B

BOTTOM VIEW

THE TUNG-SOL 6A6 IS A TWIN TRIODE DESIGNED FOR SERVICE AS A CLASS B POWER AMPLIFIER AND AS A CLASS A1 DRIVER. WITH THE EXCEPTION OF HEATER RATINGS, ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL TO THOSE OF TYPES 6N7, 6N7G, 6N7GT AND 53.

RATINGS

CLASS A1 AMPLIFIER

MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PEAK PLATE CURRENT PER PLATE	125	MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE	1.0	WATT

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER – TRIODES CONNECTED IN PARALLEL

PLATE VOLTAGE	250	294	VOLTS
CONTROL GRID VOLTAGE	−5	−6	VOLTS
PLATE CURRENT	6	7	MA.
PLATE RESISTANCE	11 300	11 000	OHMS
TRANSCONDUCTANCE	3100	3200	μMHOS
AMPLIFICATION FACTOR	35	35	

RATINGS

CLASS B POWER AMPLIFIER

MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PEAK PLATE CURRENT	125	MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE	5.5	WATTS

CONTINUED NEXT PAGE

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PLATE 1139-2

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TUNG-SOL

OPERATING CONDITIONS AND CHARACTERISTICS[A]

CLASS B AMPLIFIER	IDEAL	TYPICAL	
ZERO SIGNAL PLATE VOLTAGE	300	300	VOLTS
DC GRID VOLTAGE	0	0	VOLT
PEAK AF SIGNAL VOLTAGE PER GRID[B]	29	41[C]	VOLTS
MAXIMUM SIGNAL PEAK GRID CURRENT PER GRID	20	22	MA.
ZERO SIGNAL PLATE CURRENT PER PLATE	17.5	17.5	MA.
MAXIMUM SIGNAL DC PLATE CURRENT PER PLATE	35	35	MA.
GRID IMPEDANCE AT 400 CYCLES	0	516[D]	OHMS
PLATE SUPPLY IMPEDANCE	0	1000	OHMS
EFFECTIVE LOAD RESISTANCE PLATE TO PLATE	8000	8000	OHMS
TOTAL HARMONIC DISTORTION	4	8	PER CENT
THIRD HARMONIC DISTORTION	3.5	7.5	PER CENT
FIFTH HARMONIC DISTORTION	1.5	2.5	PER CENT
POWER OUTPUT	10	10	WATTS

[A] UNLESS OTHERWISE SPECIFIED, VALUES ARE FOR BOTH UNITS

[B] FOR POWER OUTPUT SHOWN.

[C] INCLUDES PEAK GRID IMPEDANCE VOLTAGE DROP.

[D] THE 516 OHMS IMPEDANCE CONSISTS OF A 50 MH. INDUCTANCE AND A 500 OHM RESISTANCE.

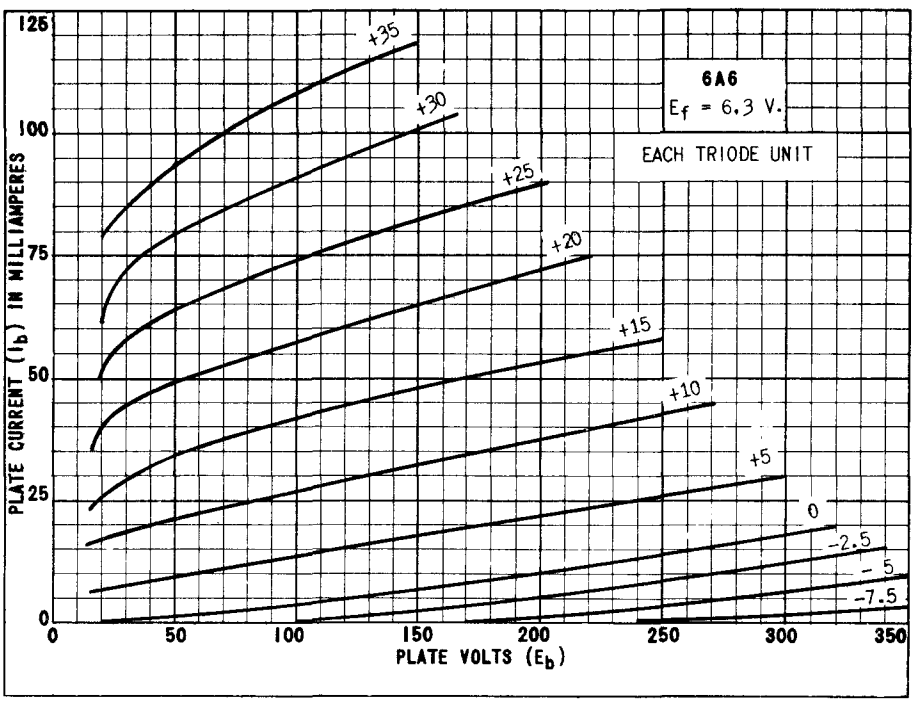

PLATE 1140-1

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